PTO-1449

Information Disclosure Citation in an Application

Application No.	Applicant(s)	
09/719,591	Mohammed N. Islam et al.	
Docket Number	**Group Art Unit**	**Filing Date**
069204.0163	2633	December 12, 2000

U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
✓	A	5,831,754	11/03/1998	Nakano	359	161	05/01/1995
	B						
	C						
	D						
	E						
	F						
	G						
	H						
	I						
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO
	M							

NON-PATENT DOCUMENTS

		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
✓	N	E.M. Dianov, "Raman fiber amplifiers," Fiber Optics Research Center at the General Physics Institute of the Russian Academy of Sciences, Moscow, Russia, 5 pages	© 1999
✓	O	A.K. Srivastava, et al., "System Margin Enhancement with Raman Gain in Multi-Span WDM Transmission," Technical Digest, OFC '99, 3 pages.	Friday 2/26/1999
	P	PCT, Written Opinion, International Preliminary Examining Authority," 6 pages.	~~10 Mar 2003~~
	Q		
	R		
	S		
	T		
	U		
	V		

EXAMINER	DATE CONSIDERED
Quandra Hughes	May 2, 2004

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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Docket Number	**Group Art Unit**	**Filing Date**
069204.0163		December 12, 2000

U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
✓	A	6,147,794	11/14/2000	Stentz	359	334	02/04/1999
	B						
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO
	N							
	O							
	P							

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		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
✓	Q	S.A.E. Lewis, et al., "1.4W saturated output power from a fibre Raman amplifier," OFC., 3 pages	OFC. 1999
	R	PCT Notification of Transmittal of the International Search Report or the Declaration, 5 pages	01/21/2003
	S		
	T		
	U		
	V		

EXAMINER	DATE CONSIDERED
Deirdre Hughes	Aug 2, 2004

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PTO-1449	Application No. 09/719,591	Applicant(s) Mohammed N. Islam, et al.
Information Disclosure Citation In an Application	Docket Number 069204.0163	Group Art Unit 2633	Filing Date December 12, 2000

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	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	6,219,176 B1	4-17-2001	Terahara	359	341	7-21-1998
B	6,263,139 B1	7-17-2001	Kawakami et al.	385	123	11-9-1999
C	6,356,383 B1	3-12-2002	Cornwell, Jr. et al.	359	334	3-31-2000
D	6,404,964 B1	6-11-2002	Bhagavatula et al.	385	123	4-14-1999
E	6,414,786 B1	7-2-2002	Foursa	359	334	3-27-2000
F	6,417,959 B1	7-9-2002	Bolshtyansky et al.	359	334	2-1-2001
G	6,437,906 B1	8-20-2002	Di Pasquale et al.	359	337.2	11-22-2000
H	2002/0001123 A1	1-3-2002	Miyakawa et al.	359	334	6-21-2001
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P	1 180 860 A1	19.02.2001	EP	H04B	10/17	X	
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	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
T	Hiroji Masuda and Shingo Kawai, Ultra Wide-Band Raman Amplification With A Total Gain-Bandwidth of 132 nm Of Two Gain-Bands Around 1.5 μm, ECOC '99, Nice, France, pp. II-146 – II-147.	26-30 September 1999
U	Sugizaki, et al., Slope Compensating DCF for S-band Raman Amplifier, OSA TOPS Vol. 60, Optical Amplifiers and Their Applications, Nigel Jolley, John D. Minelly, and Yoshiaki Nakano, eds., 2001 Optical Society of America, pp. 49-53.	2001
V	Vasilyev, et al., Pump intensity noise and ASE spectrum of Raman amplification in non-zero dispersion-shifted fibers, reprinted from the Optical Amplifiers and Their Applications Conference, 2001 Technical Digest, 2001 Optical Society of America, pp. 57-59.	2001
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EXAMINER	DATE CONSIDERED
DEANDRA M. HUGHES	Aug. 2, 2004

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U.S. PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION PTO-1449	ATTY. DOCKET NO. 20434-736	SERIAL NO. 09/719,591
	APPLICANT Islam	
	FILING DATE 12/12/00	GROUP Not Assigned

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	4,063,106	12/113/77	Ashkin et al.	307	88.3	
	4,685,107	8/4/87	Kafka et al.	372	6	
	4,740,974	4/26/88	Byron	372	3	
	5,039,199	8/13/91	Mollenauer et al.	359	334	
	5,050,183	9/17/91	Duling, III	372	94	
	5,058,974	10/22/91	Mollenauer	385	27	
	5,117,196	5/26/92	Epworth et al.	359	333	
	5,132,976	7/21/92	Chung et al.	372	6	
	5,134,620	7/28/92	Huber	372	6	
	5,191,586	3/2/93	Huber	372	6	
	5,191,628	3/2/93	Byron	385	27	
	5,218,655	6/8/93	Mizrahi	385	39	
	5,268,910	12/7/93	Huber	372	6	
	5,295,016	3/15/94	Van Deventer	359	347	
	5,323,404	6/21/94	Grubb	372	6	
	5,359,612	10/25/94	Dennis et al.	372	18	
	5,450,427	9/12/95	Fermann et al.	372	18	

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER Jennifer Hughes	DATE CONSIDERED Aug 2. 2004

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INFORMATION DISCLOSURE CITATION PTO-1449	ATTY. DOCKET NO. 20434-736	SERIAL NO. 09/719,591
	APPLICANT Islam	
	FILING DATE 12/12/00	GROUP Not Assigned

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	5,473,622	12/5/95	Grubb	372	6	
	5,477,555	12/19/95	Debeau et al.	372	25	
	5,479,291	12/26/95	Smith et al.	359	333	
	5,485,481	1/16/96	Ventrudo et al.	372	6	
	5,497,386	3/5/96	Fontana	372	18	
	5,504,771	4/2/96	Vahala et al.	372	94	
	5,513,194	4/30/96	Froberg et al.	372	6	
	5,521,738	5/28/96	Froberg	359	184	
	5,530,710	6/25/96	Grubb	372	6	
	5,541,947	7/30/96	Mourou et al.	372	25	
	5,542,011	7/30/96	Robinson	385	24	
	5,577,057	11/19/96	Frisken	372	18	
	5,617,434	4/1/97	Tamura et al.	372	6	
	5,623,508	4/22/97	Grubb et al.	372	3	
	5,659,559	8/19/97	Ventrudo et al.	372	6	
	5,673,281	9/30/97	Byer	372	3	
	5,734,665	3/31/98	Jeon et al.	372	6	

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER Deandra Hughes	DATE CONSIDERED Aug 2. 2004

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	APPLICANT Islam	
	FILING DATE 12/12/00	GROUP Not Assigned

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	5,757,541	5/26/98	Fidric	359	341	
	5,838,700	11/17/98	Dianov et al.	372	6	
	5,841,797	11/24/98	Ventrudo et al.	372	6	
	5,847,862	12/8/98	Chraplyvy et al.	359	337	
	5,861,981	1/19/99	Jabr	359	341	
	5,880,866	3/9/99	Stolen	359	138	
	5,883,736	3/16/99	Oshima et al.	359	341	
	5,887,093	3/23/99	Hansen et al.	385	27	
	5,920,423	7/6/99	Grubb et al.	359	341	
	5,768,012	6/16/98	Zanoni et al.	359	341	
	5,673,280	9/30/97	Grubb et al.	372	3	
	5,659,644	8/19/97	DiGiovanni et al.	385	31	
	5,389,779	2/14/95	Betzig et al.	250	216	
	5,323,404	6/21/94	Grubb	372	6	
	5,226,049	7/6/93	Grubb	372	6	
	5,225,925	7/6/93	Grubb et al.	359	341	
	5,825,520	10/20/98	Huber	359	130	

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER	Jeanda Hughes	DATE CONSIDERED	Aug 2. 2004

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INFORMATION DISCLOSURE CITATION PTO-1449	ATTY. DOCKET NO. 20434-736	SERIAL NO. 09/719,591
	APPLICANT Islam	
	FILING DATE 12/12/00	GROUP Not Assigned

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	5,825,520	10/20/98	Huber	359	130	
	5,798,855	8/25/98	Alexander et al.	359	177	
	5,726,784	3/10/98	Alexander et al.	359	125	
	5,701,186	12/23/97	Huber	359	125	
	5,659,351	8/19/97	Huber	348	7	
	5,600,473	2/4/97	Huber	359	179	
	5,579,143	11/26/96	Huber	359	130	
	5,557,442	9/17/96	Huber	359	179	
	5,555,118	9/10/96	Huber	359	125	
	5,532,864	7/2/96	Alexander et al.	359	177	
	5,504,609	4/2/96	Alexander et al.	359	125	
	5,467,212	11/14/95	Huber	359	168	
	5,416,629	5/16/95	Huber	359	182	
	5,400,166	3/21/95	Huber	359	173	
	5,373,389	12/13/94	Huber	359	195	
	5,331,449	7/19/94	Huber et al.	359	125	
	5,321,707	6/14/94	Huber	372	6	

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER Jeanine Stephens	DATE CONSIDERED May 2, 2004

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INFORMATION DISCLOSURE CITATION PTO-1449	ATTY. DOCKET NO. 20434-736	SERIAL NO. 09/719,591
	APPLICANT Islam	
	FILING DATE 12/12/00	GROUP Not Assigned

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	5,321,543	6/14/94	Huber	359	187	
	5,301,054	4/5/94	Huber et al.	359	132	
	5,295,209	3/15/94	Huber	385	37	
	5,293,545	3/8/94	Huber	359	111	
	5,283,686	2/1/94	Huber	359	337	
	5,271,024	12/14/93	Huber	372	6	
	5,257,124	10/26/93	Glaab et al.	359	124	
	5,243,609	9/7/93	Huber	372	9	
	5,222,089	6/22/93	Huber	372	6	
	5,212,579	5/18/93	Huber et al.	359	182	
	5,210,631	5/11/93	Huber et al.	359	132	
	5,208,819	5/4/93	Huber	372	32	
	5,200,964	4/6/93	Huber	372	26	
	5,187,760	2/16/93	Huber	385	37	
	5,166,821	11/24/92	Huber	359	238	
	5,159,601	10/27/92	Huber	372	6	
	5,153,762	10/6/92	Huber	359	125	

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO
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EXAMINER	Leandra Hughes	DATE CONSIDERED	Aug. 2, 2004

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INFORMATION DISCLOSURE CITATION PTO-1449	ATTY. DOCKET NO. 20434-736	SERIAL NO. 09/719,591
	APPLICANT Islam	
	FILING DATE 12/12/00	GROUP Not Assigned

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	5,151,908	9/29/92	Huber	372	6	
	5,140,456	8/18/92	Huber	359	341	
	5,268,910	12/7/93	Huber	372	6	
	5,107,360	4/21/92	Huber	359	124	
	4,831,616	5/16/89	Huber	370	3	

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	Masuda, H. et al., "Ultrawide 75-nm 3-dB Gain-Band Optical Amplification with Erbium-Doped Fluoride Fiber Amplifiers and Distrbuted Raman Amplifiers", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 10, No. 4, April 1998, pp. 516-518

EXAMINER Jeanne Hughes DATE CONSIDERED July 21, 2004

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INFORMATION DISCLOSURE CITATION PTO-1449	ATTY. DOCKET NO. 20434-736	SERIAL NO. 09/719,591
	APPLICANT Islam	
	FILING DATE 12/12/00	GROUP Not Assigned

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO
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	Masuda, H. et al., "Wide-Band and Gain Flattened Hybrid Fiber Amplifier Consisting of an EDFA and a Multiwavelength Pumped Raman Amplifier", IÉEE PHOTONICS TECHNOLOGY LETTERS, Vol. 11, No.6, June 1999, pp. 647-649 ✓
	Kawaii, S. et al., "Ultra-Wide, 75nm 3dB Gain-Band Optical Amplifier Utilising Gain-Flattened Erbium-Doped Fluoride Fibre Amplifier and Discrete Raman Amplification", ELECTRONIC LETTERS, Vol. 34, No. 9, April 30, 1998, pp. 897-898 ✓
	Kawai, S. et al., "Ultrawide, 75nm 3dB Gain-Band Optical Amplifier Utilizing Erbium-Doped Fluoride Fiber and Raman Fiber", OFC TECHNICAL DIGEST, 1998 ✓
	Kidorf, H. et al., "Pump Interactions in a 100-nm Bandwidth Raman Amplifier", IEEE ELECTRONICS TECHNOLOGY LETTERS, Vol. 11, No. 5, May 1999, pp.530-532 ✓
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	Dianov, E.M. et al., "Highly Efficient 1.3μm Raman Fibre amplifier", ELECTRONICS LETTERS, Vol. 34, No. 7, April 2, 1998, pp. 669-670 ✓
	Chernikov, S.V. et al., "Raman Fibre Laser Operating at 1.24μm", ELECTRONICS LETTERS, Vol. 34, No.7, April 2, 1998, pp. 680-681 ✓
EXAMINER	DATE CONSIDERED Aug 2. 2004

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INFORMATION DISCLOSURE CITATION PTO-1449	ATTY. DOCKET NO. 20434-736	SERIAL NO. 09/719,591
	APPLICANT Islam	
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U.S. PATENT DOCUMENTS

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EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

TW	Liaw, S-K et al., "Passive Gain-Equilized Wide-Band Erbium-Doped Fiber Amplifier Using Samarium-Doped Fiber", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 8, No. 7, July 1996, pp. 879-881 ✓
TW	Masuda, M. et al., "Wideband, Gain-Flattened, Erbium-Doped Fibre Amplifiers with 3dB Bandwidths of >50nm", ELECTRONICS LETTERS, Vol. 33, No. 12, June 5, 1997, pp. 1070-1072 ✓
TW	Yang, F.S. et al., "Demonstration of Two-Pump Fibre Optical Parametric Amplification", ELECTRONICS LETTERS, Vol. 33, No. 21, October 9, 1997, pp. 1812-1813 ✓
TW	Kawai, S. et al., "Wide-Bandwidth and Long-Distance WDM Transmission Using Highly Gain-Flattened Hybrid Amplifier", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 11, No. 7, July 1999, pp. 886-888 ✓
TW	Paschotta, R. et al., "Ytterbium-Doped Fiber Amplifiers", IEEE JOURNAL OF QUANTUM ELECTRONICS, Vol. 33, No. 7, July 1997, pp. 1049-1056 ✓
TW	Chernikov, S.V. et al., "Raman Fibre Laser Operating at 1.24 μm" ELECTRONICS LETTERS, Vol. 34, No. 7, April 2, 1998, pp. 680-681 ✓
TW	Grubb, S.G. et al., "Fiber Raman Lasers Emit at Many Wavelengths", LASER FOCUS WORLD, February 1996, pp. 127-134 ✓
TW	Mollenauer, L.F. et al., "Dispersion-Managed Solitons for Terrestrial Transmission", OPTICAL SOCIETY OF AMERICA, 1999 ✓
TW	Hansen, S. L. et al., "Gain Limit in Erbium-Doped Fiber Amplifiers Due to Internal Rayleigh Backscattering", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 4, No.6, June 1992, pp. 559-561 ✓
TW	Spirit, D.M. et al., "Systems Aspects of Raman Fibre Amplifiers", OPTICAL AMPLIFIERS FOR COMMUNICATION, Vol. 137, Pt. J, No. 4, August 1990, pp. 221-224 ✓
TW	Mollenenauer, L.F. et al., "Soliton Propagation in Long Fibers with Periodically Compensated Loss", IEEE JOURNAL OF QUANTUM ELECTRONICS, Vol. QE-22, No. 1, January 1986, pp. 157-173 ✓

EXAMINER Lecendia Hughes	DATE CONSIDERED Aug 2, 2002

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INFORMATION DISCLOSURE CITATION PTO-1449	ATTY. DOCKET NO. 20434-736	SERIAL NO. 09/719,591
	APPLICANT Islam	
	FILING DATE 12/12/00	GROUP Not Assigned

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO
	WO 98/20587	5/14/98	PCT	H01S	3/30	X	
	0 903 876 A1	3/24/99	Europe	H04B	10/17	X	
	0 936 761 A1	8/18/99	Europe	H04B	10/18	☑	☐

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	Hansen, P.B. et al., "Rayleigh Scattering Limitations in Distrigbuted Raman Pre-Amplifiers", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 10, No. 1, January 1998, pp. 159-161
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Information Disclosure Citation In an Application

Application No.	Applicant(s)
09/719,591	Mohammed N. Islam et al.
Docket Number	**Group Art Unit**	**Filing Date**
033204.0163		June 16, 1999

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069204.0163		June 16, 1999

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EXAMINER	DATE CONSIDERED
Deandra M. Hughes	Aug 2. 2004

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669204.0163		June 16, 1999

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	S	Pending Patent Application; USSN 10/100,587; entitled "Fiber Optic Transmission System with Low Cost Transmitter Compensation"	Filed 03/15/2002
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